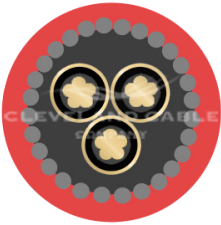


BS7835 22KV & 33KV LSZH 3 CORE COPPER SCREENED CABLE



APPLICATION

The 22KV and 33KV Medium Voltage British Standard cable is suitable for installation in power networks, underground and in cable ducting. Its low smoke zero halogen sheath makes it suitable for installations where fire, smoke emissions and toxic fumes create a potential threat. Please note:

Due to poor UV resistant qualities, red outer sheath cables are not recommended for outdoor installation.

CABLE STANDARDS

BS7835

BS EN/IEC 60754-1

BS EN/IEC 60228

BS EN/IEC 60332-1-2

CONSTRUCTION

Conductor: Stranded Plain Annealed Circular Compacted Copper Conductors

Conductor Screen: Semi-conductive XLPE

Insulation: Cross-Linked Polyethylene (XLPE)

Insulation Screen: Semi-conductive XLPE

Metallic Screen: Individual or collective overall copper tape screen

Filler: Polyethylene Terephthalate fibers (PET)

Separator: Binding tape

Bedding: Low Smoke Zero Halogen (LSZH)

Armour: Steel Wire Armoured (SWA)

Sheath: Low Smoke Zero Halogen (LSZH)

Sheath Colour: ■ Red or ■ Black

CHARACTERISTICS

Voltage Rating: 22000 or 33000 Volts

Tested to Voltage and Duration of BS7835

Temperature Rating: -15°C to +90°C

Minimum Bending Radius: As per cable manufacturer datasheet

CORE IDENTIFICATION

3 Core: ■ Brown ■ Black ■ Grey Tapes

Should not be installed at temperatures below 0°C or above +40°C

BS7835 22KV & 33KV LSZH 3 CORE COPPER SCREENED CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM ²)	STRANDING (MM)	NO OF CORES	WEIGHT (KG/KM)	OVERALL DIAMETER (MM)	VOLTAGE
22KVLSF3X95RD	95	19/2.52	3	8820	70.30	22KV
33KVLSF3X95RD	95	19/2.52	3	12020	85.30	33KV
33KVLSF3X185RD	185	37/2.52	3	20000	96.00	33KV

22KV & 33KV 3 CORE COPPER SCREENED CABLE- ELECTRICAL CHARACTERISTICS

CONDUCTOR SIZE	MAXIMUM CONDUCTOR DC RESISTANCE AT (20°C Ω/Km)	CONDUCTOR AC RESISTANCE AT MAX OPERATING TEMPERATURE AND 50HZ (20°C Ω/KM)	DIELECTRIC LOSSES (W/Km)	RSISTANCE AT 50HZ (Ω/KM)	CONDUCTOR S.C.C FOR 1 SEC (KA)	ARMOUR S.C.C FOR 1 SEC (KA)	SCREEN S.C.C FOR 1 SEC (KA)	CURRENT RATING		
								LAI D IN GROUND A	LAI D IN DUCT A	LAI D IN FREE AIR A
70	0.268	0.342	15.35	0.102	10.01	19.3	0.9	255	215	290
95	0.193	0.247	16.81	0.099	13.585	20.47	1	300	255	350
120	0.153	0.196	18.37	0.096	17.16	21.4	1.1	340	285	400
150	0.124	0.159	20.15	0.092	21.45	22.1	1.2	385	320	450
185	0.0991	0.128	21.81	0.089	26.455	22.4	1.2	425	365	510
240	0.0754	0.098	24.47	0.086	34.32	23.8	1.4	495	415	595
300	0.0601	0.078	27.13	0.084	42.9	24.1	1.5	560	470	680
400	0.047	0.062	30.00	0.081	57.2	25.8	1.6	630	530	785

ELECTRICAL DATA:

Maximum conductor operating temperature: 90°C
Maximum screen operating temperature: 80°C
Maximum conductor temperature during S.C.: 250°C

LAYING CONDITIONS AT TREFOIL FORMATION ARE AS BELOW:

Soil thermal resistivity: 120°C. Cm/Watt
Burial depth: 0.5m
Ground temperature: 15°C
Air temperature: 25°C
Frequency: 50Hz

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.